

WARDECKA, IRENA

Refractometric determination of mixtures of salicylic acid in a mixture of binary systems. Kazimierz Kalinowski, Irena Wardecka, and Edward Uscinowicz (Zakl. Chem. Polon. Akad. Nauk, Warszawa, Polon. Pharm. 13, 205-11(1956)(Eng. transl. summary).—Quadrant analysis of mixts. of binary systems by a refractometric method was investigated. Varying concns. of the substances were used as supplementary agent and distd. water is a solvent for Na salicylate + hexamethylenetetramine, Na salicylate + aminopyrine, Na salicylate + caffeine salicylate, and caffeine salicylate + aminopyrine. Fifty % EtOH was employed as a solvent for Na salicylate + aminopyrine, and caffeine salicylate + aminopyrine; 85% alc. was the solvent for acetylsalicylic acid + aminopyrine. Among these mixts. only the identification of Na salicylate + aminopyrine was not possible, primarily because of the too small difference in the n_D of these compds. The refractometric method is adequate for detg. mixts. of therapeutic compds.

Chem

3

STROINSKA, Barbara; WARECKA, Krystyna

Early form of a case of Steinert disease; revision of a case bringing up major diagnostic difficulties. Neurol neurochir psych 12 no.6:917-920 N-D '62.

1. Klinika Neurologiczna, Akademia Medyczna, Warszawa. Kierownik: prof. dr med. I. Hausmanowa-Petrusewicz.

JK

WARDEGA, A.

Historical outline of antiaircraft and antigas preparations in pre-September Poland. p. 69

WOJSKOWY PRZEGLAD LOTNICZY. (Dowództwo Wojsk Lotniczych) Warszawa, Poland, Vol. 12, no. 4, Apr. 1959

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 8, August, 1959

Uncl.

WARDESKA C.

✓ Bibliography of Polish geology, 1952. C. Wardeska. GP
Inst. geol. Poland. Bibliog. No. 15, 1-32 (1956) ~~1-32 (1956)~~
48, 3862r. — This lists 345 titles. Michael Fleischer

WARDESKA, C.

Chemical Abstr.

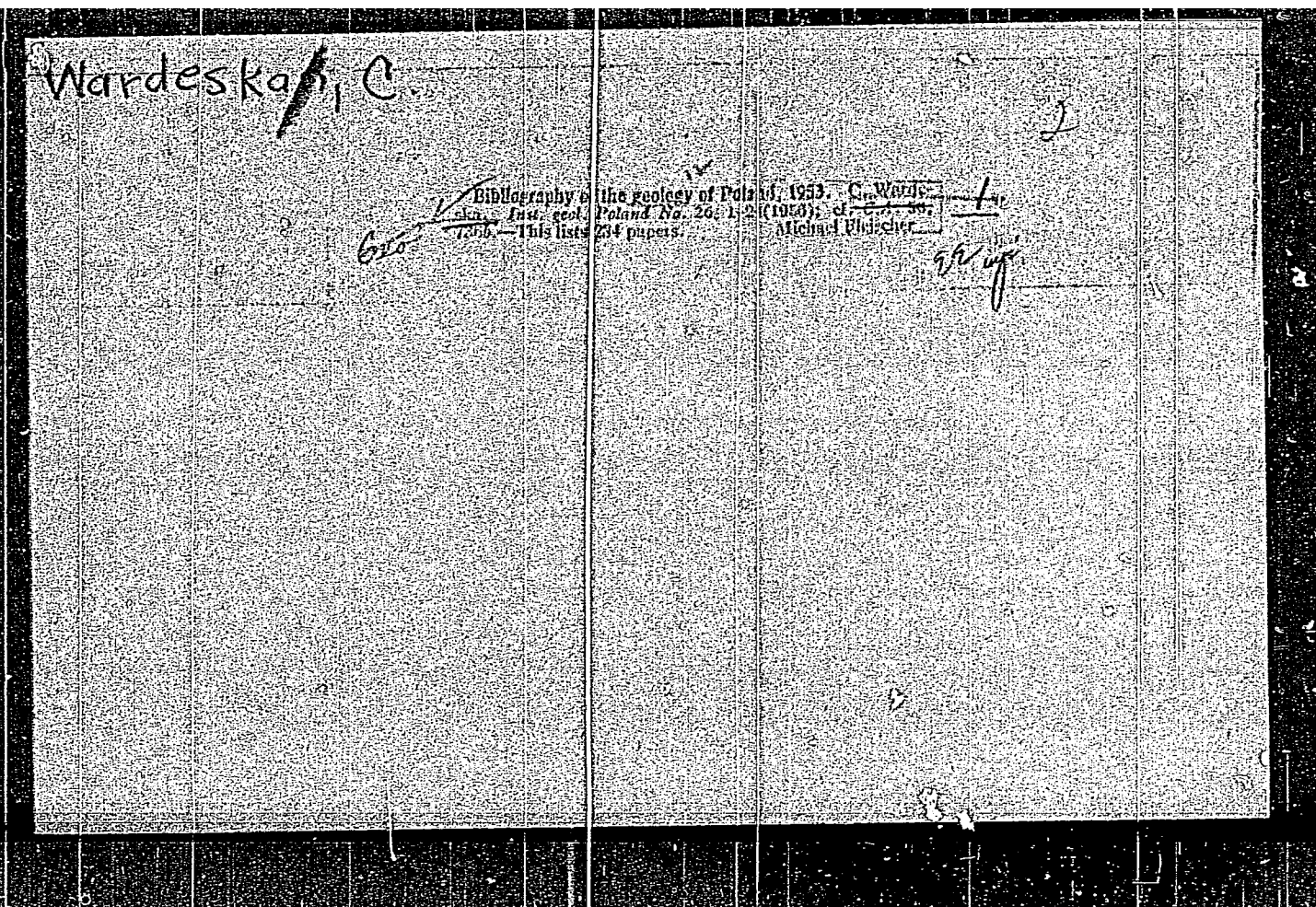
Vol. 48

Apr. 10, 1954

Mineralogical and Geological Chemistry

Bibliography of Polish geology for 1951. C. Wardeska.
Poland, Inst. geol. No. 24, 16 pp. (1953); cf. ~~C. Wardeska~~
Michael Fletcher

MS
5955



PABISIAK, Antoni; IZBICKI, Lech; WARDYNSKI, Grzegorz

Surgical treatment of hallux with a modified method of
Heuter-Mayo with evaluation of late results. Wiad. lek.
18 no. 21aSuppl.:31-33 15 N ' 65

1. Z I Oddziału Chirurgicznego Szpitala Miejskiego w Radomiu
(Ordynator: dr. med. A. Pabisiaak).

IWANOWSKA, J. DEPTULA, S., BLITEK, D., SMYK, W., WARDYNSKA, H., GALECKA, H.

The mechanism of appearance of avitaminosis E. Acta physiol. polon.
9 no.2:257-262 1958

1. Z Zakladu Badania Organopreparatow i Witamin Instytutu Lekow w
Warszawie. Dyrektor: prof. dr P. Kubikowski
(VITAMIN E DEFICIENCY, experimental,
prod. (Pol))

Various degrees of E avitaminosis were induced in female rats by giving insufficient rations. Separate groups of rats received 0.167, 0.318, 0.605 and 1.150 mg respectively of tocopherole per animal. By counting live, resorpted and dead embryos, as well as by the absence of pregnancy, it was established that the best result is obtained from tocopherole dose of 0.318 - 0.605.

WARDYNSKI, Grzegorz

Surgical treatment of gastric and duodenal ulcer with
emphasis on late results. Wiad. lek. 18 no.21:Suppl.:
13-17 15 N ' 65

1. Z I Oddziału Chirurgicznego Szpitala Miejskiego w
Radomiu (Ordynator: dr. med. A. Pabisiak).

WARDZINSKI, F.

"Inventiveness in road transportation." p. 66
(Motoryzacja, Vol 8 No 3 Mar 53 Warszawa)

SO: Monthly List of East European Accessions, Vol 2 No 9 Library of Congress Sept 53 Uncl

WARDZINSKI, Franciszek, mgr. inż.

Designing of pistons and sintering of tightening rings.
Techn motor 12 no. 6: 172-175 Je '62.

WARDZINSKI, F.

Influence of the geometric proportions of pistons on their tightness. Techn motor 13 no.1:Supplement:Biul inf OBTS 9 no.1:1-2 Ja '63.

KWIATKOWSKI, Stefan, mgr inz.; WARDZINSKI, Stanislaw, mgr inz.

An attempt at determining the reactive power balance in the Power
Plants of the Northern District of Poland. Energetyka Pol 14 no.7:
199-204 J1 '60. (EEAI 10:1)
(Poland--Electric power)

WARDZYNSKI, W.

Optical properties of semiconductors. Przem inst elektron
prace 4 no. 1:5-24 '63.

1. Instytut Fizyki Doswiadczalnej, Uniwersytet, Warszawa.

WARDZYNSKI
WARDZYNSKI, W

The effect of ultraviolet irradiation on the absorption spectra of potassium bromide and potassium iodide crystals with anionic impurities. W. Wardzynski (Polish Sci., Warsaw). Bull. Acad. Sci. USSR Div. Chem. Sci. Engl. transl. 1955, 10: 1055. Single crystals of KBr and KI were grown by the Kyropoulos method (C.A.B. 20, 2602). The max. added impurity was 0.01 mol. %. Two absorption bands were found for KBr(NO₃) crystals at 7.12 and 7.76 μ . Although the short-wave band has the greater intensity, the intensity ratio varies from crystal to crystal. The introduction of K₂CO₃ to the melt gave rise to a 6.9- μ band and to 7.12- and 7.76- μ bands similar to those previously mentioned. The latter band was of insignificant intensity. The addition of KOH produced bands at 6.7, 7.0, and 7.12 μ ; the last being of low intensity. A 7.1- μ band was generated by the 7.0- μ band. Upon irradiation with the light of a Hg lamp, of crystals of this type the intensity of the 7.12- μ band gradually decreased and that of the 7.76- μ band increased. It was found that these changes were produced by ultraviolet radiation. The changes appeared to be permanent, but after heating to 650° or higher the 7.12- μ band was regenerated. In the case of KI crystals into which no impurities were intentionally added 6.9- and 7.12- μ bands appeared. Ultraviolet irradiation of KI caused the disappearance of the 7.12- μ band and an increase at 7.8 μ . Some coloration of the crystals resulted from the ultraviolet irradiation; however, this could be removed by exposure to white light or by moderate heating. The colored crystals and those bleached either by irradiation or moderate heating were characterized by identical absorption in the infrared. Thermal treatment of the crystals yielded absorption changes.

W. Wardzynski, Jr.

WARDZYNSKI, WIESLAW

POLAND/General Section

A

Abs Jour : Referat Zhur - Fizika, No 5, 1957, No 10764

Author : Wardzynski, Wieslaw

Inst : Not given

Title : Simple Method of Demonstrating Diffraction Phenomena.

Orig Pub : Fiz. szkole, 1956, 2, No 5, 295-298

Abstract : No abstract.

Card 1/1

POLAND/Optics - Spectroscopy.

Abs Jour : Ref Zhur - Firika, No 6, 1959, 14278

Author : Wardzynski, Wieslaw

Inst : The University, Warsaw, Poland

Title : Investigation of Infrared Absorption in Alkali Halide Crystals with Anionic Impurities.

Orig Pub : Acta phys. polon., 1958, 17, No 1, 29-61

Abstract : An investigation was made of the infrared absorption spectra of single crystals of KBr, KCl, and KI, containing impurities KNO_3 , K_2CO_3 , and others in concentrations on the order of 10^{-2} molar percent. It is shown that one of the bands experiences a change during rapid heating and cooling of the crystals, while others change when the crystals are illuminated with ultraviolet. A study was made of the change in the absorption of the specimens with temperature.

Card 1/2

- 143 -

WARDZYNSKI, W.; GIRIAT, W.

Optical and photoelectric properties of thin CdSe layers. Bul Ac
Pol mat 8 no.5:325-332 '60.

1. Institute of Physics, Polish Academy of Sciences. Presented by
W. Rubinowicz.

(Cadmium) (Selenium) (Optics (Photoelectricity)

WARDYNSKI, Wiesław, doc. dr.

Infrared radiation. Problemy 18 no.7:485-492 '62.

L 38155-65 EWT(1)/EWT(m)/T/EWP(t)/EWP(b)/EWA(h) P2-4/P2-6/Peb 252(c)
ACCESSION NR: AP5005859 JD/JG/AT P/0053/65/000/001/0029/0034

AUTHOR: Filinski, I.; Baranowski, J.; Wardzynski, W.

TITLE: Recombination radiation in GaSb

SOURCE: Przegląd elektroniki, no. 1, 1965. 29-34

TOPIC TAGS: gallium antimonide, recombination radiation, semiconductor laser, photoluminescence, electroluminescence, infrared radiation

ABSTRACT: The paper presents the preliminary results of an experimental investigation of photoluminescence and electroluminescence from a p-n junction in GaSb, made at the Katedra fizyki ciała stałego Uniwersytetu Warszawskiego (Solid-State Physics Department of Warsaw University) from the standpoint of using this material for semiconductor lasers. The method of obtaining pure GaSb (direct reaction in a graphite boat at 800C inside a quartz ampul filled with hydrogen under a few cm Hg pressure) is described. Final purification was obtained by zone refining (150 passes during 150 hours). The final material had a hole concentration of $1.2-1.5 \times 10^{17} \text{ cm}^{-3}$ and a hole mobility of $700-900 \text{ cm}^2 \text{ v}^{-1} \text{ sec}^{-1}$. The material was then doped with Zn, Cd, S or oxygen; n-type material was obtained by doping with selenium and tellurium. The method of producing p-n junctions by alloying is described, and photographs of the junctions obtained are shown.

Card 1/4

L 38155-65

ACCESSION NR: AP5005859

The system for the measurement of the relative intensity of photoluminescence is described in some detail; measurements were made using the pulse technique and a phase-type pulse detector. For the light source, a high-pressure dc mercury lamp was used. No results of the measurement of relative photoluminescence are given. The system for the measurement of electroluminescence is also described. Fig. 1 of the Enclosure shows the spectral distribution of electroluminescence for small current densities, both at room temperature and at 80K. Other studies showed that the intensity of electroluminescence increases exponentially with an increase in current density through the junction. Fig. 2 shows the spectral distribution of electroluminescence at the temperature of liquid nitrogen. The author concludes that the p-n junctions investigated represent an efficient, although low-power, point source of infrared radiation in the interval around 40 Mev, that can be easily modulated. Orig. art. has: 7 figures. [08]

ASSOCIATION: none

SUBMITTED: 00

ENCL: 02

SUB CODE: SS, OP

NO REF SOV: 000

OTHER: 007

ATD PRESS: 3222

Card 2/4

3

POLAND

WARDZYNSKI, Wieslaw; RAULUSZKIEWICZ, Jerzy; WOJTOWICZ-NATANSON,
Barbara; RYZKO, Maria

1. Institute of Experimental Physics, University of Warsaw
(for ?) 2; Institute of Physics, Polish Academy of
Sciences (Instytut Fizyki Polskiej Akademii Nauk) -
(for ?)

Warsaw, Przegląd elektroniki, No 4, April 1966, pp 191-200

"The investigation of absorption, recombinational light
and photoconductivity of CdSe."

WARDZIŃSKI, Edward, mgr. inż.

Research work on Polish drugs. Farmacja Pol 18 no.17/18:410-414
S '62.

1. Dyrektor techniczny Zjednoczenia Przemysłu Farmaceutycznego
POLFA.

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ZAHARIEVA-KOVACHEVA, K. [Zakharieva-Kovacheva, K.]; WARE, S.; CHATALOV, G.

Geological age of low metamorphic rocks north of Golyam Dervent,
S.E.Bulgaria. Doklady BAN 17 no.8:749-751 '64.

1. British Museum (Natural History), London, and Chair of Paleontology,
Sofia University.

WARECKA, Krystyna; RAFALOWSKA, Janina

Degenerative changes in the cervical spine in multiple sclerosis patients. *Neurol., neurochir., psychiat. Pol.* 15 no.1:55-58
Ja-F'65.

1. Z Kliniki Neurologicznej Akademii Medycznej w Warszawie
(Kierownik: prof. dr. med. I. Hausmanowa-Petrusewicz).

HAUSMANOWA, Irena; WARECKA, Krystyna; MAJKOWSKI, Jerzy (przy udziale
Barbary Wasowicz, ~~Sonia~~ ~~Zabłotnickiej~~, Anny Lancuckiej)

Results of ACTH therapy in neurological clinical conditions. Neur.
& c. polska 5 no.5:481-500 Sept-Oct 55.

1. Z Kliniki Chorob Nerwowych A.M. w W-wie w/s kierownika-prof.
I. Hausmanowa.

(NERVOUS SYSTEM, diseases,
ther., ACTH)

(ACTH, therapeutic use,
nervous system dis.)

WARECKA, Krystyna

Bromine and its mechanism of action. Neur. & c.polska 5 no.4:
435-442 July-Aug '55.

1. Z Kliniki Choroż Narwowych A.M. w Warszawie. w/s kierownika:
prof. dr Irena Hausmanowa.
(BROMIDES, therapeutic use,
review)

WARECKA, Krystyna

Evaluation of newer method of the treatment of disseminated sclerosis. Polski tygod. lek. 11 no.44:1875-1879 29 Oct 56.

1. (Z Kliniki Neurologicznej A.M. w Warszawie: wz.
Kierownika: prof. dr. I. Hausmanowa) adres: Warszawa, Klin.
Neurol. A.M.

(MULTIPLE SCLEROSIS, therapy,
review (Pol))

EXCERPTA MEDICA Sec 8 Vol 12/12 Neurology Dec 59

6150. ANALYSIS OF MULTIPLE SCLEROSIS CASES TREATED IN THE NEUROLOGICAL CLINIC, WARSAW (1951-1956) - Analiza przypadków stwardnienia rozsianego w Klinice Neurologicznej w latach 1951-56 - Warecka K. and Emeryk B. Klin. Neurol. A. M., Warszawa - WIAD. LEK. 1957, 10/21 (1001-1007) Tables 8

The paper is based on 289 cases of multiple sclerosis. The cases were analysed according to following aspects: sex, profession, age at time of onset, first neurological symptoms, the course of the illness, the clinical types, changes in the visual field and CSF, relation of the disease to pregnancy and hormonal disturbances, alcoholism and other noxious factors. Various therapeutic methods are discussed.

WARECKA, K.

Effect of certain drugs on cerebral vessels. Acta physiol. polon.
8 no.3:559-561 1957.

1. Z Kliniki Neurologicznej, A M Z Zakladu Fizjopatologii Instytutu
Hematologii w Warszawie.

(AMINOPHYLLINE, effects,
on cerebral vessels (Pol))

(CHLORPROMAZINE, effects,
same)

(BRAIN, blood supply,
eff. of aminophylline & chlorpromazine (Pol))

WARECKA, Krystyna

Cerebellar atrophy in alcoholics. Polski tygod. lek. 14 no.7:325-328 16 Feb 59.

1. Z Kliniki Neurologicznej w Warszawie; w.a. Kierownika prof. dr med. I. Hausmanowa-Petrusewicz.

(CEREBELLUM, dis.

atrophy in alcoholism (Pol))

(ALCOHOLISM, compl.

cerebellar atrophy (Pol))

WARECKA, Krystyna, st. asystent

Effect of euphyllin, chlorpromazine and reserpine on blood vessels of the pia mater in cats and rabbits. Rozpr.wydz.nauk med. 5 no.2:83-137 '60.

1. Z Kliniki Neurologicznej Akademii Medycznej w Warszawie Kierownik: prof. dr med. Irena Hausmanowa-Petrusewicz (Przedstawili: prof. dr med. Jerzy Chorobski, prof. dr med. Anatol Dowzenko, prof. dr med. Piotr Kubikowski)

(PIA MATER blood supply)	(VASOMOTOR SYSTEM pharmacol)
(CHLORPROMAZINE pharmacol)	(RESERPINE pharmacol)
(RESERPINE pharmacol)	(AMINOPHYLLINE pharmacol)

SOBKOWICZ, Hanna; WARECKA, Krystyna; ZUK, Tomasz

Attempted ambulatory rehabilitation of school-age children with cerebral paralysis. Neur.&c.polska 10 no.6:809-820 '60.

1. Z Miedzyszkolnej Przychodni Lekarskiej w Warszawie, Kierownik: dr K. Sokal. Z Kliniki Neurologicznej A.M. w Warszawie p.o. Kierownika: Prof. dr I.Hausmanowa-Petrusewicz. Z Kliniki Ortopedycznej A.M. w Warszawie, Kierownik: prof. A.Gruca.
(CEREBRAL PALSY rehabil)

JEDRZEJOWSKA, Hanna; RAPALOWSKA, Janina; WARECKA, Krystyna

Cases of distinct bone changes in syringomyelia. Polski tygod.
lek. 15 no.21:798-800 23 My '60.

1. Z Kliniki Chorob Nerwowych A.M. w Warszawie; kierownik: prof.
dr med Irena Hausmanowa-Petrusewicz.

(SYRINGOMYELIA pathol)

(BONE AND BONES pathol)

RAPALOWSKA, Janina; WARECKA, Krystyna

Attempted evaluation of annual activities of a clinic for multiple sclerosis patients of the A.M.Klinika Neurologiczna in Warsaw.
Polski tygod. lek. 15 no.28:1079-1081 11 J1 '60.

1. Z Kliniki Neurologicznej A.M. w Warszawie; kierownik: prof.
dr med. I.Hausmanowa-Petrusewicz
(MULTIPLE SCLEROSIS hosp & clin)

SLOWIK, Tadeusz; WARECKA, Krystyna

A case of co-existing cysticercosis of the brain and tuberculous
cerebrospinal meningitis. Neruol. etc., polska 11 no.4:565-568
'61.

1. Z Kliniki Neurochirurgii AM w Warszawie Kierownik: prof. dr med.
J. Chorobski Z Kliniki Neurologicznej AM w Warszawie Kierownik: prof.
dr med. I. Hausmanowa-Petrusewicz.
(TUBERCULOSIS MENINGEAL compl) (CYSTICERCOSIS compl)

WARECKA, Krystyna; RAFALOWSKA, Janina

On the problem of convulsive seizures in multiple sclerosis.
Neurol. etc., polska 11 no.4:569-574 '61.

1. Klinika Neurologiczna AM w Warszawie Kierownik: prof. dr
I. Hausmanowa-Petrusewicz.
(MULTIPLE SCLEROSIS compl) (CONVULSIONS)

WARECKA, Krystyna

Effect of euphyllin, chlorpromazine and reserpine on blood vessels of the pia mater in cats and rabbits. Neurologia etc. polska 11 no.6:753-755 '61.

1. Z Kliniki Neurologicznej AM w Warszawie Kierownik: prof. dr med. I. Hausmanowa-Petrusewicz.

(AMINOPHYLLINE pharmacol) (RESERPINE pharmacol)
(CHLORPROMAZINE pharmacol) (PIA MATER blood supply)

RAFALOWSKA, Janina; WARECKA, Krystyna

The problem of familial disseminated sclerosis. Neurologia etc.
polska 11 no.6:793-801 '61.

1. Z Kliniki Neurologicznej AM w Warszawie Kier. prof. dr med.:
I.Hausmanowa-Petrusewicz.
(MULTIPLE SCLEROSIS genetics)

KOSCIELAK, Jerzy; NIEBROJ-DOBOSZ, Irena; WARECKA, Krystyna

Cerebrospinal fluid proteins in multiple sclerosis. Neurol. neurochir.
psychiat. pol. 12 no.1:21-27 '62.

1. Z Kliniki Neurologicznej AM w Warszawie Kierownik: prof. dr I.
Hausmanowa-Petrusewicz.

(PROTEINS csf) (MULTIPLE SCLEROSIS csf)

KOSCIELAK, Jerzy; NIEBROJ-DOBOSZ, Irena; WARECKA, Krystyna

Proteins of the cerebrospinal fluid in scattered hardening. Neurol
neurochir psych 12 no.1:21-27 Ja-F '62.

1. Klinika Neurologiczna, Akademia Medyczna, Warszawa, ul. Oczki 6.
Kierownik: prof. dr I. Hausmanowa-Petrusewicz.

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WARECKA, Krystyna; RAFALOWSKA, Janina

On the connection of disseminated sclerosis with so-called abiotrophy of the nervous system. Neurol neurochir psych 12 no.2:211-214 Mr-Apr '62.

1. Klinika Neurologiczna, Akademia Medyczna, Warszawa, Oczki 6.
Kierownik: prof. dr med. I. Hausmanowa-Petrusewicz.

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RAFALOWSKA, Janina; WARECKA, Krystyna

Epileptic crises in the course of disseminated sclerosis. Neurol
neurochir psych 12 no.3:317-323 My-Je '62.

1. Klinika Neurologiczna, Akademia Medyczna, Warszawa (Kierownik: prof.
dr med. I. Hausmanowa-Petrusewicz).

HERMAN, E.; DOWZENKO, A.; KOZNIEMSKA, H.; MICHALSKI, T.; WENDER, M.; WARECKA, K.;
HAUSMANOWA-PETRUSEWICZ, I.; CENDROWSKI, W.; JUS, K.

The 7th International Congress of Neurology in Rome; collective
report. Neurol neurochir psych 12 no.3:455-468 My-Je '62.

1. Członek Korespondent Komisji Biometrii i Genetyki przy Światowej
Federacji Neurologów (for Cendrowski).

STROINSKA, Barbara; WARECKA, Krystyna

Early form of Steinert's disease. Neurol. neurochir. psychiat. pol.
12 no.6:917-920 '62.

1. Z Kliniki Neurologicznej AM w Warszawie. Kierownik: prof. dr med.
I. Hausmanowa-Petrusewicz.

(MYOTONIA ATROPHICA)

KOSCIELAK, Jerzy; NIEBROJ-DOBOSZ, Irena; WARECKA, Krystyna

Blood serum proteins in multiple sclerosis. Neurol. neurochir.
psychiat. pol. 13 no.2:177-182 '63.

1. Z Kliniki Neurologicznej AM w Warszawie Kierownik: prof.
dr I. Hausmanowa-Petrusewicz.

(BLOOD PROTEIN ELECTROPHORESIS)

(MULTIPLE SCLEROSIS)

(BLOOD PROTEINS)

WARECKA, Krystyna

Behavior of glycoproteins in the blood serum of patients with multiple sclerosis. Neurol. neurochir. psychiat. pol. 13 no.3:359-364 '63.

1. Z Kliniki Neurologicznej AM w Warszawie Kierownik: prof. dr med. I. Hausmanowa-Petrusewicz.

(MULTIPLE SCLEROSIS) (GLYCOPROTEINS)
(BLOOD PROTEIN ELECTROPHORESIS)
(SERUM ALBUMIN)

WARECKA, Krystyna; ASKANAS, Waleria

On the treatment of multiple sclerosis with diabetol. Neurol.
neurochir.psychiat. pol. 13 no.5:585-588 '63.

1. Z Kliniki Neurologicznej AM w Warszawie. Kierownik:
prof. dr. med. I. Hausmarova-Petrusewicz.

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WARECKA, Krystyna

Lipoprotein fractions in the blood serum of multiple sclerosis patients. Neurol. neurochir. Psychiat. pol. 13 no.5:589-593 '63.

On the behavior of blood sugar curves in multiple sclerosis patients. 595-600

1. Z Kliniki Neurologicznej AM w Warszawie. Kierownik: prof. dr. med. I. Hausmanowa-Petrusewicz.

WARECKA, Krystyna

Cholinesterase activity of the cerebrospinal fluid of multiple sclerosis patients. Neurol. neurochir. psychiat. Pol. 14 no.1: 13-17 Ja-F '64.

1. Z kliniki Neurologicznej Akademii Medycznej w Warszawie (Kierownik Kliniki: prof. dr. med. I. Hausmanowa-Petrusewicz).

KOSCIELAK, J.; WARECKA, K.; GROCHOWSKA, E.

Sugars bound with proteins in the blood serum of multiple sclerosis patients. Neurol. neurochir. psychiat. Pol. 14 no. 2: 203-207 Mr-Apr '64.

1. Z Kliniki Neurologicznej AM w Warszawie (Kierownik: prof. dr I. Hausmanowa-Petrusiewicz) z Instytutu Hematologii w Warszawie. Dyrektor Instytutu doc. dr A. Trojanowski.

WARECKA, Krystyna; DIETRICH-RAP, Zofia

Pseudodystrophic form of familial spinal atrophy. Neurol., neuro-
chir., psychiat. Pol. 14 no.3:519-521 My-Je '64

1. Z Kliniki Neurologicznej Akademii Medycznej w Warszawie
(Kierownik: prof. dr. med. I. Hausmanowa-Petrusewicz).

CHELMICKA-KIZLICH, Ewa; WARECKA, Krystyna

A case of dermatomyositis in a 7-year-old girl. *Pediat. Pol.*
40 no.10:1117-1121 0 '65.

1. Z Kliniki Neur logicznej AM w Warszawie (Kierownik: prof.
dr. med. I. Hausmanowa-Petrusewicz).

JANKOWSKI, Tadeusz; SZPAKOWICZ, Teresa; WAREJKO, Stanislaw

Case of hepato-diaphragmatic interposition of colon. Pol. tyg.
lek. 20 no.14:528-529 5 Ap '65.

1. Z Kliniki Chorob Zakaźnych AM w Białymstoku (Kierownik: doc.
dr. med. Piotr Boron) i z II Kliniki Chirurgicznej AM w Białym-
stoku (Kierownik: prof. dr. med. T. Jankowski).

WAREJKO, STANISLAW

MUSIATOWICZ, Jozef; WAREJKO, Stanislaw.

Therapeutic and diagnostic applications of pneumoperitoneum.
Polski tygod. lek. 10 no. 49: 1590-1594 5 Dec. '55.

1. Z Kliniki Poloznictwa i Chorob Kobietych Akademii Medycznej
w Bialymstoku; kierownik: prof. dr med. Stefan Soszka)
Bialystok, Kl. Polozn. i Chor. Kob. A.M. ul. Warszawska 15.
(PNEUMOPERITONEUM, ARTIFICIAL,
diag. & ther. use, review)

WAREJKO, STANISLAW

MUSIATOWICA, Josef; WAREJKO, Stanislaw

Clinical value of *gynecography*. *Gin. polska* 28 no.3:299-307
May-June 57.

1. Z Kliniki Położnictwa i Chorob Kobietych A.M. w Białymstoku
Kierownik: prof. dr. med. S. Soszka. Adres: Klinika Chorob
Kobietych i Położnictwa A.M. Białystok, Warszawska 15.
(GENITALIA, FEMALE, radiography
gynecography, technic & diag. value (Pol))

MUSIATOWICZ, Jozef, WAREJKO, Stanislaw

Parietography in gynecological diseases. Polski przegl. radiol.
22. no.2:97-102 Mar 58

1. Z Kliniki Poloznictwa i Chorob Kobietych A.M. w Bialymstoku.

Kierownik: prof. dr med. S. Soszka.

(GYNECOLOGICAL, DISEASES, diag.

x-ray diag., parietography, indic. & technics (Pol))

MUSIATOWICZ, Jozef; WAREJKO, Stanislaw

On the utility of x-ray examination in the evaluation of developmental defects of the female reproductive organ. Gyn.polska 31 no.4: 469-473 J1-Ag '60.

1. Z Kliniki Położnictwa i Chorob Kobietych A.M. w Białymstoku
Kierownik: prof. dr med. S.Soszu.
(UTERUS abnor.)

KLIMOWICZ, Jadwiga; LOTOCKA, Krystyna; WARAJSKO, Stanisław

Venous thrombosis with dysfunction of the lymphatic system in the clinical picture of trichinosis based on 2 observations. Wlad. parazyt. 10 no.4:334-335 '64.

1. Klinika Chorob Zakaznych Akademii Medycznej, Bialystok.

WARELIS, F.

"Analysis of the organization of a workday in the harvesting-threshing action exemplified by the Bielany State Farm of the Wroclaw (Breslau)-South group."
Nowe Rolnictwo, Warsaw, Vol 3, No 7, July 1954, p. 87

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

WARELIS, Fryderyk, mgr inż.

Contribution to studies on the location and utilization of
Czechoslovak-made sprinklers on state farms. ~~Samowodna~~
24 no. 1: Supplement: Biul inst mel i użyt ziel ll no. 1:
43-44 Ja '64.

1. Zakład Melioracji, Instytut Melioracji i Użytków Zielonych,
Warszawa.

BREBOROWICZ, Henryk; WOJTOWICZ, Jerzy; WARENIK, Alina; ICIEK, Teresa

The weight of infants at birth and the maternal heart volume.
Ginek. Pol. 36 no.4:373-377 Ap '65.

1. Z I Kliniki Poloznictwa i Chorob Kobietych AM w Poznaniu
(Kierownik: prof. dr. med. W. Michalkiewicz) i z Zakladu
Radiologii AM w Poznaniu (Kierownik: prof. dr. med. B. Gladysz).

ZYCH, Dobieslaw; WARESKA, Wanda

A case of unusual retention of antitubercular drugs. Gruzlica
33 no.6:513-517 Je '65.

1. Z Oddzialu II (Kierownik: prof. dr. W. Jaroszewicz) i z
Zakladu Biochemii (Kierownik: doc. dr. P. Szafranski) Insty-
tutu Gruzlicy.

WARESKA, W

U.S.S.R.

POL.

V 2820. Chemical determination of isoniazid in pleural exudate. W. Wareska. (Polski Tygod. Lekar., 1953, 8 (1), 1730; Referativy Zh. Khim., Biologicheskaya Khimiya, 1955, Abstr. No. 2354).—
A method for the determination of isoniazid in pleural exudate is based on its reaction with NH_4VO_3 . A sample of the exudate is centrifuged for 10 min. at 3000 r.p.m. with an equal volume of trichloroacetic acid, and 1 ml of a soln. of NH_4VO_3 (0.25 g of NH_4VO_3 , 20 ml of $\text{N H}_2\text{SO}_4$, and water to 100 ml) and 1 ml of water are added to 2 ml of the clear liquid. The extinction at 470 m μ is then measured. With isoniazid-free exudates, the extinction is insignificant. Exudates from patients treated with isoniazid contain 10 to 140 mg per 100 ml of isoniazid.
E. Hayes

WARESKA, W.

✓ Determination of Isoniazid (INH) in pleural exudates.
 W. Wareska. *Polski Tygodnik Lekarski* 8, 1738(1953);
~~Excerpt Med.~~, Sect. II, 7, 1030(1964).--The detn. of Iso-
 niazid is based on the method of Wollenberg (*C.A.* 47, 410
 20876). The fluid is mixed with an equal vol. of 20%
 $\text{CCl}_4\text{CO}_2\text{H}$ and centrifuged. To 3 ml. of the filtrate 1 ml.
 of reagent (50 mg. $\text{NH}_4\text{vanadate}$ and 20 ml. of $\text{N H}_2\text{SO}_4$
 dild. to 100 ml. with water) and 2 ml. of water are added.
 The extinction is read at 4760 Å. With concns. above 6
 mg./100 ml. the sample must be appropriately dild. before
 the reagent is added. A standard curve is plotted with
 pure Isoniazid. Maximal error is 2.5 mg. per 100 ml. at
 concns. of about 35 mg./100 ml. In exudates from patients
 receiving the drug, concns. ranging from 10 to 440 mg./100
 ml. were found. In patients not receiving the drug, neg-
 ligible extinctions only were obtained with the vanadate
 reagent.

R. D. H.

WARESKA; Wanda; IZDEBSKA-MAKOSA, Zuzanna

Concentration of Na-PAS in the blood and its tolerance following single oral administration of the whole daily dose. Gruzlica 32 no.4:305-309 Ap '64.

1. Z Kliniki Chorob Pluc Instytutu Gruzlicy (Kierownik: doc. dr. med. P. Krakowka).

WARESKA, Wanda

Results of chemical investigations of calculi of the urinary tract of patients treated in the Wola Hospital during 1952-54.
Urol. polska 8:82-88 1956.

1. Z Pracowni Diagnostycznej Instytutu Gruslicy. Kierownik:
mgr. W. Wareska.

(CALCULI,

urinary tract, chem. aspects. (Pol))

(URINARY TRACT, calculi,
chem. aspects. (Pol))

WARESKA, Wanda; LYCZEWSKA, Janina; OSINSKA, Krystyna

Blood levels of para-aminosalicylic acid in pulmonary tuberculosis patients treated with various preparations & by various routes of administration. Gruzlica 26 no.2:99-112 Feb 58.

1. Z Pracowni Diagnostycznej Instytutu Gruzlicy Kierownik: mgr.
W. Wareska Z Oddzialu XI Instytutu Gruzlicy. Kierownik: doc. dr P.
Krakowka. Dyrektor Instytutu Gruzlicy: prof. dr J. Misiewicz.
Adres: Warszawa, ul. Plocka 26.

(TUBERCULOSIS, PULMONARY, ther.

PAS, comparison of various prep. & admin (Pol))

OSINSKA, Krystyna, KORKUCZANSKI, Adam, WARESKA, Wanda

Blood levels of paraaminosalicylic acid (PAS) in patients with pulmonary tuberculosis. II Production and clinical use of the potassium salt of paraaminosalicylic acid (K-PAS). Gruzlica 26 no.6:473-478 Jun 58

1. Z Zakladu Farmacji Stosowanej; Kierownik: mgr A. Korkuczanski
Instytutu Farmaceutycznego; Dyrektor: K. Kalandyk i z Oddzialu XI
Kierownik: doc dr P. Krakowka z Pracowni Diagnostycznej; Kierownik: mgr.
W. Wareska Instytutu Gruzlicy; Dyrektor; prof. dr J. Misiewicz.
Adres: Warszawa, ul. Mieczyslawicki 8.

(TUBERCULOSIS, PULMONARY, ther.

PAS potassium salt, prep. & clin. evaluation (Pol))

JAROSZEWICZ, Wiwa; WARESKA, Wanda; LYCZEWSKA, Janina

Effect of cortisone on INH penetration. *Graslica* 29 no.1:68-69
Ja '61.

1. Instytut Graslicy na Warszawa.

(ISONIAZID metab) (CORTISONE pharmacol)

WARESKA, Wanda, KLOTT, Maria; IZDEBSKA-MAKOSA, Zuzanna

Excretion of cycloserine in cases of kidney diseases. Gruz-
lica 31 no.6:664-668 Je'63

1. Instytut Gruzlicy, Warszawa.

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WARESKI, Marek, mgr

A sliding scale of pension benefits. Praca zabezp spol. 4
no.9/10:39.57 S.O '62.

ACCESSION NR: AP4027176

P/0061/63/000/004/0103/0109

AUTHOR: Warewicz, Stefan (Captain, Master in engineering)

TITLE: Possibility and applicability of employing vehicles travelling on an air cushion in ground forces

SOURCE: Przegląd wojsk lądowych, no. 4, 1963, 103-109

TOPIC TAGS: ground effect machine, air cushion vehicle, air-cushion supported vehicle, airbus, military vehicle, military transport vehicle

ABSTRACT: In order for carrying out assigned missions, contemporary armies have to be equipped with suitable ordnance and means of transport which will enable them to travel from point to point regardless of terrain features as well as combat and atmospheric conditions. Vehicles, which travel on a cushion of air, are of considerable interest in this connection. The chief advantages of these ground effect machines are: ability to traverse terrain which is inaccessible to other types of land vehicles; relatively low overpressure (0.01 to 0.03 kg/cm^2) acting on the ground surface; complete shock elimination; and independence of depth of water obstacles and rate of current flow. They are also independent of ice cover thickness on water. In addition, they have unlimited maneuvering ability in place and during low speed travel. Inasmuch as these vehicles have some of the features which are

Card 1/3

ACCESSION NR: AP4027176

characteristic of aircraft, helicopters especially, airfields and landing strips can be eliminated. A comparison of the airbus with a helicopter shows that their speeds are comparable (0 to 120 km/hr); they have unlimited mobility; they can fly at very low altitudes and under limited visibility conditions; ability to move in any direction; and ability to load and unload in inaccessible terrain. From a military point of view, the airbus is particularly suitable to reconnaissance units, inasmuch as they would not be restricted to roads. They can also be particularly adaptable as ambulances for evacuating casualties from the battlefield. Air platforms of 100-200 kg in weight could also be developed. These could be particularly suitable for evacuation and quartermaster purposes. Military planners are attempting to find ways of replacing helicopters, assault boats and various types of landing craft with airbuses in the case of amphibious landings. The big problem to overcome is the one of armor plating. This is of vital importance since some of these vehicles will be used directly on the battlefield. Armor plating will increase the weight, which will in turn increase the vehicle's size. This will be accompanied by a loss in mobility. Another problem is their ability to traverse terrain. It can be generally stated that ground effect machines are superior to wheeled vehicles on level terrain. They are not suitable for mountainous or even hilly terrain. In view of the diversified tasks which military transport vehicles

Card 2/3

ACCESSION NR: AP4027176

have to fulfill, the vehicles comprising the rolling equipment of any unit have to be as multipurpose as possible. It is quite possible that the best features of wheeled, tracked, and air-cushion vehicles will be combined into the design of future military vehicles. Orig. art. has: 1 figure.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 24Apr64

ENCL: 00

SUB CODE: PR, SD

NO REF SOV: 000

OTHER: 000

Card 3/3

WARGALLA, M.

WARGALLA, M. The work of factory groups of the Engineers and Technicians of
Communication of the Polish Electrical Engineers Association. p. 1
Vol. 25, no. 1, Jan. 1956. WIADOMOSC TELEKOMUNIKACYJNE.
Warszawa, Poland.

SOURCE: East European Accessions List (EEAL) LC VOL. 5, No. 6, June 1956

WARGIN, I.

"Principles of compensating workers in the automotive services in the USSR."
p. 357. (MOTORYZACJA. Vol. 9, No. 12, Dec. 1954. Warszawa, Poland)

SO: Monthly List of East European Accessions. (EEAL). LC. Vol. 4, No. 4.
April 1955. Uncl.

UMIASTOWSKA, Zofia; WARGOCKI, Janusz

Meckel's diverticulum in a child. Pol. przegl. chir. 37 no.1:
41-45 Ja '65

1. Z Oddziału Chirurgii Dziecięcej Szpitala Wojskowego w
Białymstoku (ordynator: dr. Z. Umiastowska).

WARKALLO, W.

GEOGRAPHY & GEOLOGY

periodicals: RUCH TURYSTCZNY. No. 2, Apr./June 1958

WARKALLO, W. Responsibility of hotel enterprises for loss or damage of travelers' property. p. 34.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 5
May, 1959, Unclass.

WALD, Ignacy; KULISIEWICZ, Tadeusz; MARKOWICKA, Lidia

On possibilities of the evolution of Roussy-Levy's syndrome.
Neur. &c. polska 10 no.1:1-15 Ja-P '60.

1. Z Oddziału Neurologicznego Instytutu Psychoneurologicznego,
Kierownik: dr.med. E. Jezewska, Dyrektor: prof.dr. Z. Kuligowski.
(MUSCULAR ATROPHY)
(SCOLIOSIS)
(ATAXIA)

WARM, I.

WARM, I.

Evaluation of laryngeal mirror test in diagnosis of pulmonary tuberculosis. Gruzlica, Warsz. 29 no.6:726-733 Nov-Dec 51. (CML 21:5)

1. Of the Department of Lung Diseases (Head--I.Warm, M.D.) of Lodz Hospital.

WARM, I.

Results in treatment of pulmonary tuberculosis with small doses
of streptomycin. Polski tygod. lek. 6 no. 36:1150-1154 3 Sept.
1951. (CIML 21:3)

WARM, Isajass.

Developmental possibilities of circumscribed nodular tuberculosis
and its therapy. Gruslica 23 no.9:623-633 Sept. 55.

1. Z Poradni Przeciwgrusliczej M.S. W. w Łodzi. Kierownik:
dr. I.Warm. Łódź, ul. Polna 46 m. 5.
(TUBERCULOSIS, PULMONARY,
circumscribed nodular, ther.)

WARM, Isajasz

Present state of the treatment of pulmonary tuberculosis.
Polski tygod. lek. 11 no.50:2109-2113 10 Dec 56.

1. Lodz, ul. Rewolucji 1905 r., nr 46.
(TUBERCULOSIS, PULMONARY, therapy,
drug ther. (Pol))

EXCERPTA MEDICA Ser 15 Vol. 10/9 Chest Diseases Sept 57

2332. ^{ZAT.} WARM I. Oddz. płucn. Szpit. MSW, Łódź. *Gruźlica węzłów chłonnych śródpięzo-oskrzelowych u dorosłych. Tuberculosis of the tracheo-bronchial lymph nodes in adults GRUŻLICA 1957, 25/3 (195-221) Illus. 7

Ten cases of tuberculosis of the tracheo-bronchial lymph nodes in adults are reported, and the clinical course of the disease is analysed. In all cases, the features of tuberculous toxæmia were present, and in the majority of the cases laboratory findings were abnormal. In 9 cases, treatment with INH was begun early; of these, in 4 cases marked radiological improvement was obtained. The opinion is held that tuberculosis of the tracheo-bronchial lymph nodes does not differ either in its clinical features or its course from tuberculosis of any other lymph nodes. Antimicrobial therapy brings about anatomical improvement provided it is applied early, before caseous lesions of the nodes have developed.

WARM, Isajasz; JEDRZEJCZAK, Marian

Tuberculosis morbidity in people in contact with pulmonary tuberculosis.
Gruzlica 25 no.12:985-99? Dec 57.

1. Z Poradni Przeciwgruzliczej MSW w Lodzi Kierownik: dr I. Warm.
Adres: Lodz, ul. Rewolucji 1905 r.
(TUBERCULOSIS, pulmonary, statist.
morbidity in personnel of tuberc. centers (Pol))

WARM, Izajasz

Tuberculosis of the peripheral lymph nodes -- results of anti-bacterial therapy. Gruzlica 27 no.10: 1045-1052 O '59.

1. Z Poradni Przeciwgruźliczej M.S.W. w Łodzi, Kierownik: dr.

I. Warm.

(TUBERCULOSIS LYMPH NODES ther.)

WARM, Stanislaw

Relapse following antitubercular treatment of pulmonary tuberculosis. Gruzlica 33 no.3:225-229 Mr'65.

1. Z Poradni Przeciwgrusliczej MSW w Lodzi (Kierownik: dr. med. S. Warm).

POLAND

WARMINSKI, Tadeusz

Institute of Physics, Polish Academy of Sciences (Instytut
Fizyki PAN)

Warsaw, Przegląd elektroniki, No 12, December 1965, pp 573-592

"Electron emission properties of metal-insulator-metal devices."

WARMINSKI, Tadeusz

POLAND

IGRAJ, Edward; ORLOWSKI, Stanislaw; WARMINSKI, Tadeusz

Physics Institute, Polish Academy of Sciences (Instytut Fizyki PAN
[Polska Akademia Nauk]) - (for all)

Nauka, Prace fizyczne, No 1, January 1966, pp 17-27

"Investigation of high voltage photoeffect in silicon thin films."

L 02379-67 EWP(t)/ETI IJP(c) JJ/AT

ACC NR: AP6019786

SOURCE CODE: PO/0053/66/000/001/0017/0027

AUTHOR: Igras, Edmond; Orlowski, Bronislaw; Warminski, Tadeusz

ORG: Institute of Physics, PAN

(Instytut Fizyki PAN)

TITLE: Investigation of the high-voltage photoeffect in thin silicon films

SOURCE: Przegląd elektroniki, no. 1., 1966, 17-27

TOPIC TAGS: ~~silicon~~, photo emf, ^{silicon} semiconductor, photoelectromotive force, photoeffect, semiconducting film

ABSTRACT: The purpose of the present investigation of the high voltage photo emf effect in the thin films of certain semiconductors (in this study principally silicon films) was to determine the causes of this effect. Some of the results obtained are discussed and an attempt is made to explain them. The thin films were prepared by the thermal evaporation deposition on a hot bed of silicon in a 10^{-4} mmHg vacuum, and the rate of silicon deposition was on the average about $50 \text{ \AA}/\text{sec}$, and the film thickness from 500 to $1,000 \text{ \AA}$. The effect of thermal treatment on the value of the photoelectric voltage, on the adsorption of gases on the film surfaces, and the effect of aging and stresses were also investigated. It is pointed out that the most probable causes discussed here of the high photoelectric voltage are rather complex

Card 1/2

UDC: 621.389

L 02379-67

ACC NR: AP6019786

and presumably involve several mechanisms going on simultaneously. Further studies of the problem are in progress. "The authors thank Prof. Sosnowski for his helpful suggestions and his interest in this study." Orig. art. has: 2 figures and 5 tables.

SUB CODE: 20/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 010

Card 2/2 ymb

NEYMAN, Piotr, mgr inz.; WARMINSKI, Wojciech, mgr inz.

New products of the Opolskie Electric Motor Works. Wiad
elektrotechn 32 no.5/6:139-141 My-Je '64.

M. E. C. 2. SLAW, WARMUS,

M.

Probot, Stefan, and Warmus, Mieczyslaw. Dimensional analysis in sampling inspection of merchandise. Rozprawy Mat. 5, 54 pp. (1954). (Russian summary)
The authors set up a "phenomenological" theory of sampling inspection which is not based on probabilistic arguments. The main tool of this theory is dimensional analysis, a brief account of which is given. A variance formula of the type $\sigma^2_{\bar{x}} = \frac{\sigma^2}{n} + \frac{\sigma^2}{n^2} + \dots$ is included among the postulates of the theory. The authors claim that important problems of sampling inspection can be solved in a simple way by their method. Unknown dimensionless constants occurring in the results obtained are assumed to be determined by suitable experiments. The analysis of the results of such experiments is assumed to be made by methods based on mathematical statistics.

statistics

D. J. Sandelius (Riteborg).

WARNUS, MICZYSLAW

✓ *Eukaszewicz, Józef; and Warnus, Mieczysław. Metody numeryczne i graficzne. Część I. [Numerical and graphical methods. Part I.] Państwowe Wydawnictwo Naukowe, Warszawa, 1956. 429 pp. (1 plate). zł. 29.20.

Mez This is a well-written text-book on standard numerical and graphical methods which is suitable for a beginner who had no special training in the subject. The author's aim was to fill an obvious gap in the Polish mathematical literature. It does, nevertheless, contain the author's original contributions to the art of computing. Since there is an almost complete absence of references, these contributions are difficult to spot and to appraise. The book describes an interesting variant on matrix calculus developed by T. Banachiewicz, and called the "calculus of Cracovians" together with its application to the solution of systems of linear equations.

The emphasis is on procedures, rather than on proofs or discussion. Here is a list of topics: Theory of maximum error; Calculus of differences; Interpolation; Approximation; Algebraic equations; Linear equations and Cracovians; Numerical and graphical differentiation and integration; Co-ordinates and graphs; The slide-rule; Nomograms.

This useful booklet ends with a very modest set of tables and contains an Index.

J. Kestin

WARMUS, M.

Warmus, M. Calculus of approximations. Bull. Acad. Polon. Sci. Cl. III. 4 (1956), 253-259. *u*

A theory is developed for an arithmetic and calculus of approximate numbers. The author shows that a simple and natural theory based on defining the approximate number $[a, A]$ as the closed interval $a \leq x \leq A$ leads to a system in which the distributive law fails and in which subtraction is not the inverse of addition. If however we define the approximate number $[a, A]$ to be the closed interval $\min(a, A) \leq x \leq \max(a, A)$ a more symmetrical system results in which it is possible to define the rational operations in a satisfactory way. If we write

$$[a, A] = \frac{1}{2}(A+a) + j\frac{1}{2}(A-a),$$

where j is an imaginary unit for which $j^2 = -1$ the arithmetic and calculus of approximate numbers is equivalent to that of the so-called hyperbolic complex numbers. A monograph on the elaboration of this theory is promised.
D. H. Lehmer (Berkeley, Calif.).

2

1-FW

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WARMUS, MIECZYSLAW.

Nemographic functions.

Warszawa, Poland. Panstwowe Wydawn. Naukowe, 1959. 149p.

Monthly List of East European Accessions Index (EEAI), LC. Vol. 8, No. 9, September 1959
Uncl.

WARMUS, M. (Warszawa)

Numerical solving of equations of third and fourth order with real coefficients. Zastos mat 6 no.1:127-135 '61.

1. Instytut Badan Jadrowych PAN, Warszawa, i Instytut Matematyczny PAN, Warszawa.

(Equations) (Approximate computation)

WARMUS, M.

Transformed point arithmetic for digital computers. Bul Ac Pol Mat 9
no.4:237-239 '61.

1. Institute for Nuclear Research, Polish Academy of Sciences. Presented
by H. Steinhaus.

WARMUS, M.

Approximations and inequalities in the calculus of approximations.
Classification of approximate numbers. Bul Ac Pol Mat 9 no.4:241-245
'61.

1. Institute of Mathematics, Polish Academy of Sciences and Institute
for Nuclear Research, Polish Academy of Sciences. Presented by H.
Steinhaus.